

MATHEMATICS, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN MATHEMATICAL SCIENCE

RECOMMENDED FOUR-YEAR PLAN

| Course | Title | Hours |
|--|------------------------------------|-----------|
| First Year | | |
| Fall | | |
| MATH 225 | Calculus I | 4 |
| STAT 152 | Elementary Statistics I | 3 |
| ENGL 102 | Critical Writing | 3 |
| ESAP 101 | FIRST Seminar | 1 |
| SUBJ 139 | Foundations of Academic Discovery | 3 |
| Creative & Aesthetic Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) | | 3 |
| Hours | | 17 |
| Spring | | |
| MATH 131 | Discrete Mathematics | 3 |
| MATH 230 | Calculus II | 4 |
| CPSC 146 | Programming Principles | 3 |
| ENGL 102 | Critical Writing | 3 |
| Humanities Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) | | 3 |
| Hours | | 16 |
| Second Year | | |
| Fall | | |
| MATH 231 | Calculus III | 4 |
| MATH 235 | Foundations of Mathematical Proof | 3 |
| Select one of the following: | | 3 |
| COMM 200 | Civil Discourse: Theory & Practice | |
| PHIL 110 | Ethics and Civil Discourse | |
| POLS 235 | Civil Discourse and Democracy | |
| Social Science Inquiry (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) | | 3 |
| Elective with DEI attribute | | 3 |
| Declare a Thematic Thread | | |
| Hours | | 16 |
| Spring | | |
| MATH 232 | Linear Algebra | 3 |
| MATH 301 | Differential Equations I | 3 |
| PHYS 216 | University Physics 1 with Lab | 4 |
| Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) | | 3 |
| Hours | | 13 |
| Third Year | | |
| Fall | | |
| MATH/STAT 300+ | MATH/STAT Elective | 3 |
| MATH 313 | Introductory Analysis I | 3 |

| | | |
|---|---|------------|
| STAT 352 | Mathematical Statistics I | 3 |
| CHEM 107 & CHEM 111 | General Chemistry I and General Chemistry I Lab | 4 |
| Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) | | 3 |
| Hours | | 16 |
| Spring | | |
| Select one of the following: | | 3 |
| MATH 314 | Introductory Analysis II | |
| MATH/STAT | MATH/STAT Elective | |
| MATH 325 | Abstract Algebra I | 3 |
| Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) | | 3 |
| Thematic Thread Requirement (https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-program/) | | 3 |
| Elective | | 3 |
| Hours | | 15 |
| Fourth Year | | |
| Fall | | |
| MATH/STAT 300+ | MATH/STAT Elective | 3 |
| Select one of the following: | | 3 |
| MATH 326 | Abstract Algebra II | |
| MATH/STAT 300+ | MATH/STAT Elective | |
| Elective | | 3 |
| Elective | | 3 |
| Elective | | 3 |
| Hours | | 15 |
| Spring | | |
| MATH/STAT 300+ | MATH/STAT Elective | 3 |
| MATH/STAT 300+ | MATH/STAT Elective | 3 |
| MATH 491 | Mathematics Seminar | 1 |
| Elective | | 3 |
| Elective | | 3 |
| Hours | | 13 |
| Total Hours** | | 121 |

*** This document is meant to serve as a guide. Some planners may show more than 120 credits because faculty have created flexibility in choosing courses. However, only 120 credits are required to obtain a degree. Please consult with your academic adviser and refer to your curriculum guide prior to registering for courses. This plan should be reviewed, and verified, by you and your academic adviser at least once each academic year.*

Mathematics BS/Mathematical Science (6152/MASC)
Revised date: 09.08.2023